

# "PET PRODUCT NEWS 2005"

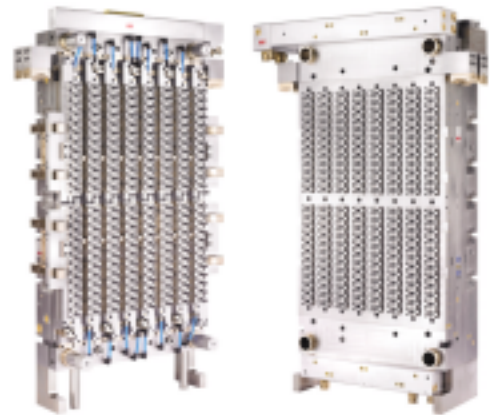
## MHT AG, HOCHHEIM/GERMANY



Mold & Hotrunner Technology AG

### 192-Cavity Preform Mold

- Up to 100% higher productivity than 96-cavity molds
- Available for 600 ton horizontal machine
- Pitch 50x120mm, for all PCO 28mm and mineral water threads
- Variable cooling management
- Tie bar supports to adjust
  - For less wear
  - Easy maintenance
- Patented hotrunner technology
  - For very low shut height
  - Low thermal expansion
  - Maintenance friendly
  - Short residence time for PET melt



192-Cavity Preform Mold For 600 Ton Machine

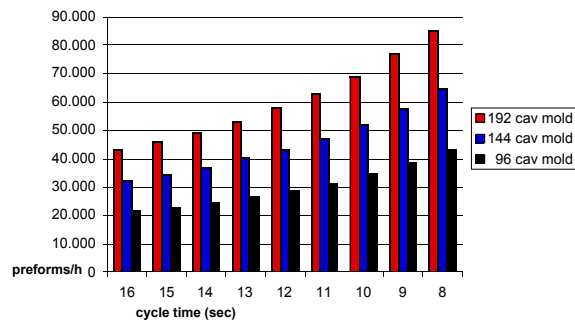
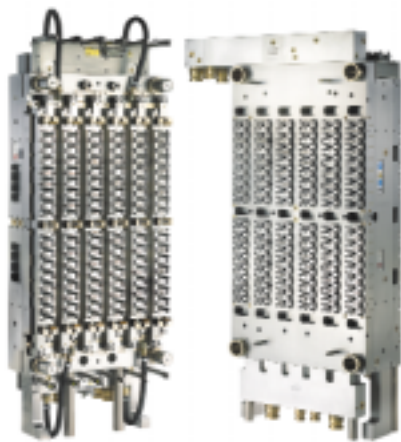


Chart Machine Output



96-Cavity Preform Mold For 300 Ton Machine

### 96-Cavity Preform Mold

- Up to 100% higher productivity than 48-cavity molds
- Available for 300 ton horizontal and vertical machines
- Pitch 50x120mm, for all PCO 28mm and mineral water threads
- Variable cooling management
- Tie bar supports to adjust for horizontal machines
  - For less wear
  - Easy maintenance
- Patented hotrunner technology
  - For very low shut height
  - Low thermal expansion
  - Maintenance friendly
  - Short residence time for PET melt

### General Info

- 50 basic mold concepts for different kind of machines available
- Consistent mold concept through existing product line
- High experience as over 400 PET molds built
- Complex preform geometries realized
- Processing support for different machines

### 48-Cavity Preform Mold

- Available for 175 ton vertical machine with similar productivity than a 300 ton machine
- Pitch 50x135mm, PCO 28mm and mineral water threads
- Similar technical features as mentioned on above molds

# PET MOLD AND MOLD EQUIPMENT UNIQUE SELLING PROPOSITION (USP)

## Innovative

- Today more than 50 mold concepts up to 192 cavities for various PET systems
- First 144-Cavity single face preform mold in process
- Preform to bottle development together with experienced partners
- Supplying molds for highly complex preform geometries
- Various post cooling solutions for different machine partners
- **Mold conversion and refurbishment directly at customer plant**
- New patented mold cooling concept
- New and improved core surface treatment for long working life
- New thermocouple/heater concept for improved quality
- New pre-guided valve stem
- New improved hotrunners with reduced shut height for better mold heat management
- New improved standardized hotrunners for improved maintenance

## Long Life Preform Molds

- Using only high quality steel and metal combinations
- Middle step mold protecting against wear
- New stack design protecting against wear
- New stack design for improved handling during maintenance

## Highly Experienced Team

- Competent consultancy by own sales at very beginning of project
- MHT delivered world wide more than 400 preform molds
- Highly complex molds for all kinds of highly complex thread geometries realizes in PET and other preform resins
- Service and Training
- Processing support for different kinds of machine
- Own test room for mold tests and development

## Flexible

- More than 50 mold concepts for different machines
- From 2 to 192-cavity molds for all kind of PET-systems
- Mold tests with various PET Systems in own test facilities
- Mold test including Preform measurement
- Supporting customer „in house“ mold start up

## References

- Different famous beverage companies
- Most well known preform converters
- Info upon request